

# Notice of Allowability

Application No.

09/595,551

Examiner

Benjamin E. Lanier

Applicant(s)

PATIL ET AL.

Art Unit

2132

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 26 June 2006.
2. ☒ The allowed claim(s) is/are 1-37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

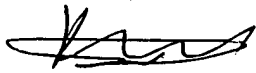
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**KAMBIZ ZAND**  
**PRIMARY EXAMINER**

## DETAILED ACTION

### *Response to Amendment*

1. Applicant's amendment filed 29 June 2006 amends claims 1-4, 9-14, 17, 18, 20, 28, and 29. Applicant's amendment has been fully considered and entered.

### *Response to Arguments*

2. Applicant's arguments, filed 29 June 2006, with respect to the amended claim language and the §112 rejections have been fully considered and are persuasive. The previous claim rejections are withdrawn.

Malcolm Pipes was contacted on 28 August 2006, but not reply was received.

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

4. The application has been amended as follows:

Claim 11 (Currently Amended)      A method for securely communicating to a mobile node on a communications system having a home network for the mobile node and at least one foreign network comprising the steps of:

requiring at least one security association between the home network and the mobile node, wherein the home network has at least one home agent network server, and using a service level agreement broker to establish and maintain a plurality of security associations;

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transmitting a registration message containing a public key, said registration message originating at the home agent network sever and routed to the mobile node to acknowledge registering the mobile node care-of-address with the home network;

requiring that an information packet transmitted to the home network be encrypted using an encryption mechanism;

transmitting the information packet from the mobile node using the security associations to support secure communications from the mobile node;

routing the information packet through a secure messaging gateway comprising a firewall blocking access of unsecured packets and an AAA server, separate from the service level agreement broker, performing authentication and accounting functions, said service level agreement broker operating from any AAA server on either the home or foreign network [[and not performing accounting functions]to support establishment and maintenance of a plurality of security associations from multiple networks and multiple nodes used in communications on the communications system to include establishing and maintaining a single service level agreement for communications among multiple networks and multiple nodes; and

decoding information from the encrypted information packet at the home network to retrieve the information.

Claim 29 (Currently Amended)      A system for securely communicating to a mobile node in a wireless communications network comprising:

a home network having a home agent network server coupled to a router capable of directing information packets to and from the home network;

a foreign network having a foreign agent coupled to a router capable of directing information packets to and from the foreign network and a transceiver capable of performing wireless communications with at least one mobile node in the transmission range of the transceiver for the foreign network;

a security association established between the home network and the mobile node using a registration message, said registration message used for registering the mobile node care-of address with the home network and addressing to transmit between the home network and the mobile node, the security association used to support the secure communication of information packets from the mobile node to the home network said security association established using a broker supporting a plurality of security associations, said broker existing and functioning separately from any AAA server to support establish and maintain a plurality of security associations from multiple networks and multiple nodes used in communications on the communications system to include establishing and maintaining a single service level agreement for communications among multiple networks and multiple nodes; and

a security gateway including a firewall function blocking unsecured packet access to the network and an AAA server performing authentication and accounting functions used to track secure communication transmission using the security association, said AAA server separate from said broker.

*Allowable Subject Matter*

5. Claims 1-37 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not disclose or make obvious a service level agreement broker that is coupled to a foreign network,

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yet separate from any AAA server on either the foreign network or a home network, such that the service level agreement broker establishes and maintains a plurality of service level agreements for communications among multiple networks and multiple nodes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin E. Lanier whose telephone number is 571-272-3805.

The examiner can normally be reached on M-Th 7:30am-5:00pm, F 7:30am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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